## CLAIMS

- 1. A method for producing a silicon wafer having a crystal orientation <110> from a silicon single crystal ingot grown by Floating Zone method (FZ method), wherein, at least, an FZ silicon single crystal ingot is grown by being made to be dislocation-free by Dash Necking method using a seed crystal having its crystal axis inclined at a specified angle from a crystal orientation <110>, and the grown FZ silicon single crystal ingot is sliced at the just angle of a crystal orientation <110> to produce a silicon wafer having a crystal orientation <110>.
- 2. The method for producing a silicon wafer according to Claim 1, wherein the sliced silicon wafer having a crystal orientation <110> is made to be a perfect circle by processing of chamfering.
- 3. The method for producing a silicon wafer according to Claim 1 or 2, wherein the specified angle of inclining the seed crystal is 1° to 30°.
- 4. The silicon wafer having a crystal orientation <110> produced by the method of producing a silicon wafer according to any one of

Claims 1 to 3.